ICF-SW11

SERVICE MANUAL

Ver 1.1 2001. 10

US Model
Canadian Model
AEP Model
E Model
Chinese Model
Tourist Model

SPECIFICATIONS

Frequency range:
- FM: 87.5 – 108 MHz (Other models)
  76 – 108 MHz (Tourist model)
- SW1: 4.750 – 5.060 MHz (Other models)
  3.850 – 4.050 MHz (Tourist model)
- SW2: 5.900 –6.200 MHz
- SW3: 7.100 – 7.350 MHz
- SW4: 9.400 – 9.990 MHz
- SW5: 11.600 – 12.100 MHz
- SW6: 13.570 – 13.870 MHz
- SW7: 15.100 – 15.800 MHz
- SW8: 17.480 – 17.900 MHz
- SW9: 21.450 – 21.750 MHz
- MW: 525 – 1620 MHz
- LW: 141 – 290 kHz

Speaker: Approx. 5.7 cm (2 1/4 inches) dia., 4 Ω
Power output: 140 mW (at 10 % harmonic distortion)
Ourput: Headphones jack (stereo minijack, 3.5 mm dia)

Power requirements
3 V DC, two R6 (size AA) batteries
DC IN 3V jack accepts : AC power adaptor
(Except chinese model)
AC-E30L, HG (not supplied)
Battery life: Approx. 30 hours with Sony SUM-3 (NS)
Dimensions: Approx. 162 × 93.8 × 34.8 mm(w/h/d)
(6 1/2 × 3 3/4 × 1 3/8 inches)
Mass: Approx. 340 g (12 oz) incl. batteries
Supplied accessory
Short wave guide (1)
Accessories not supplied
AC power adaptor

*AC-E3L, HG
LW/MW/SW wide range antenna AN-1, AN-102
*The voltage of power supply is different depending on the country . Please buy an AC power adaptor in the country where the radio is to be used.

Design and specifications are subject to change without notice.

FM STEREO/SW1-9/ MW/LW 12 BAND RECEIVER

9-927-176-12
2001J1600-1
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Sony Corporation
Personal Audio Company
Published by Sony Engineering Corporation

SONY®

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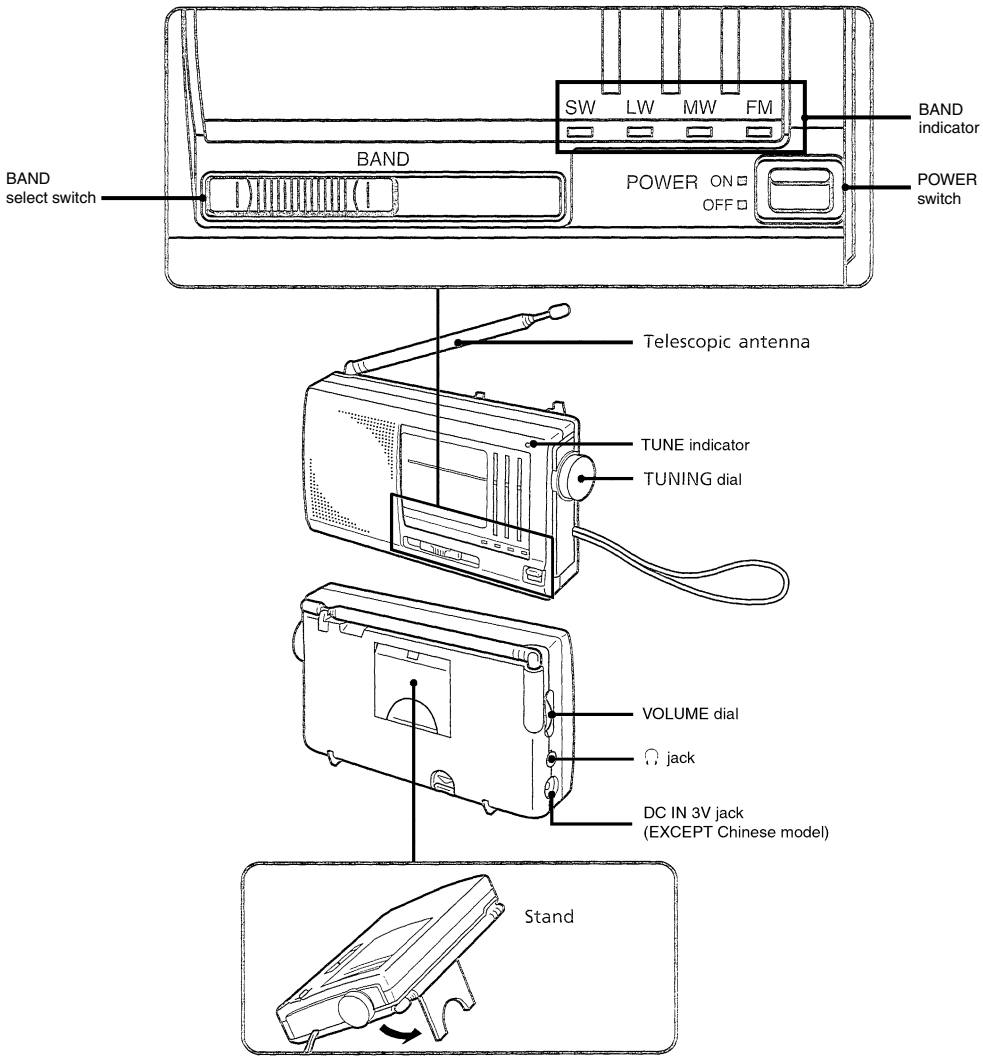
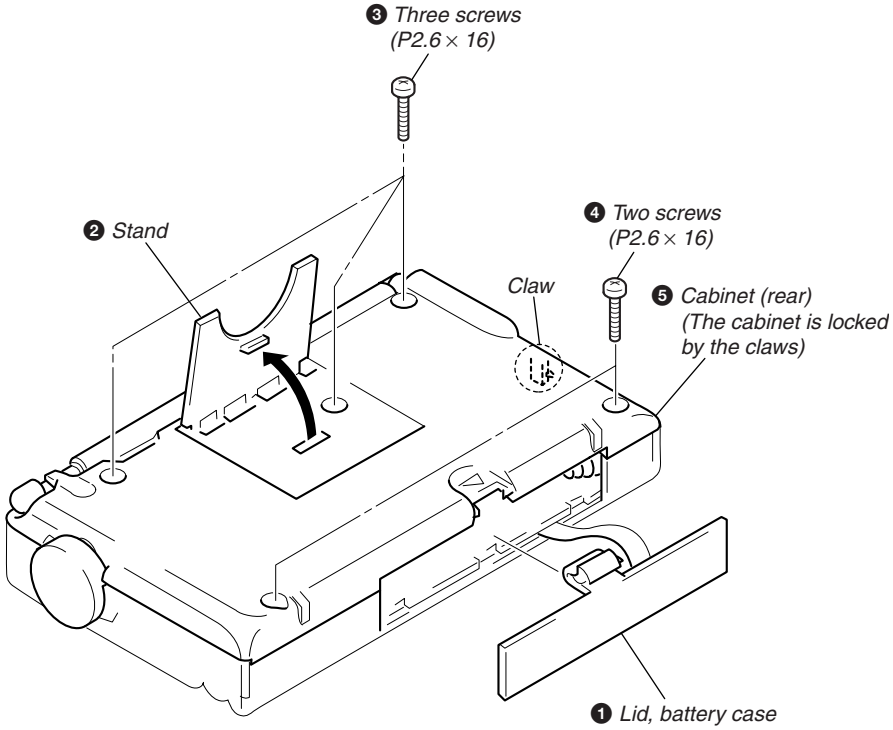
SECTION 1
GENERAL



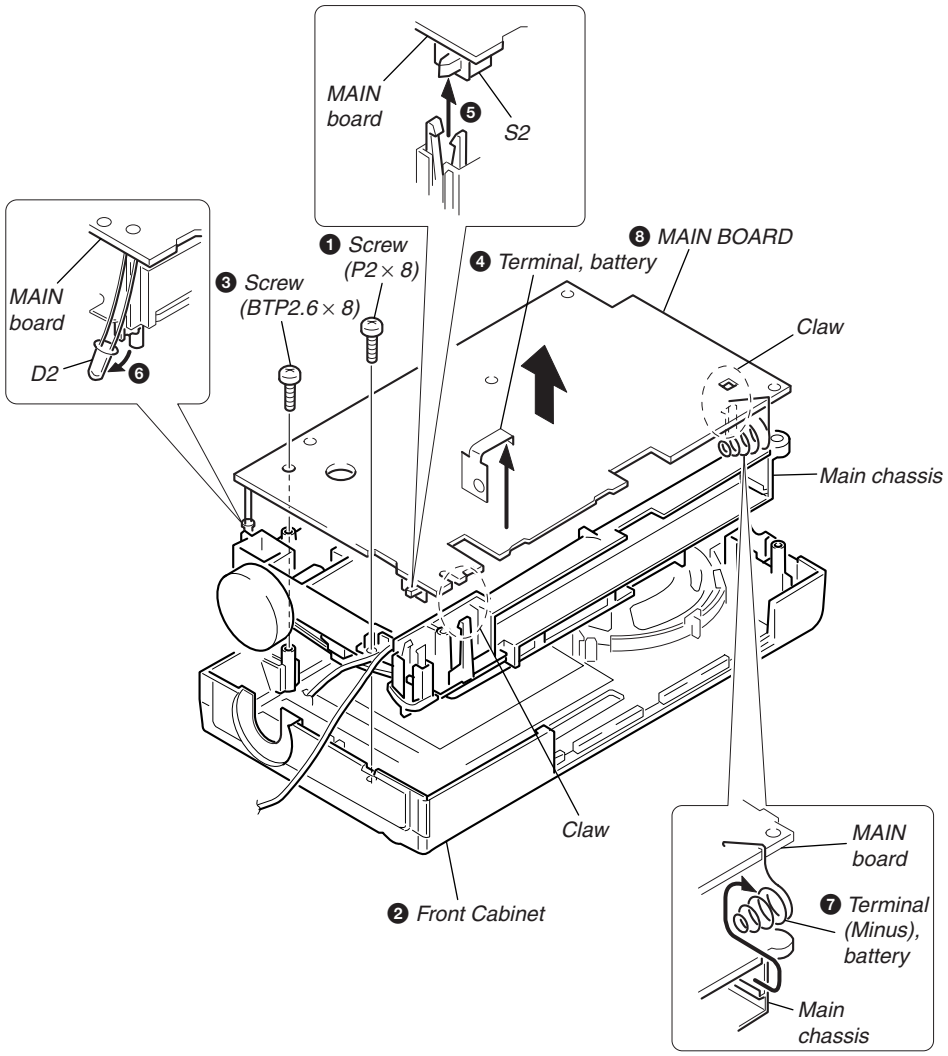
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

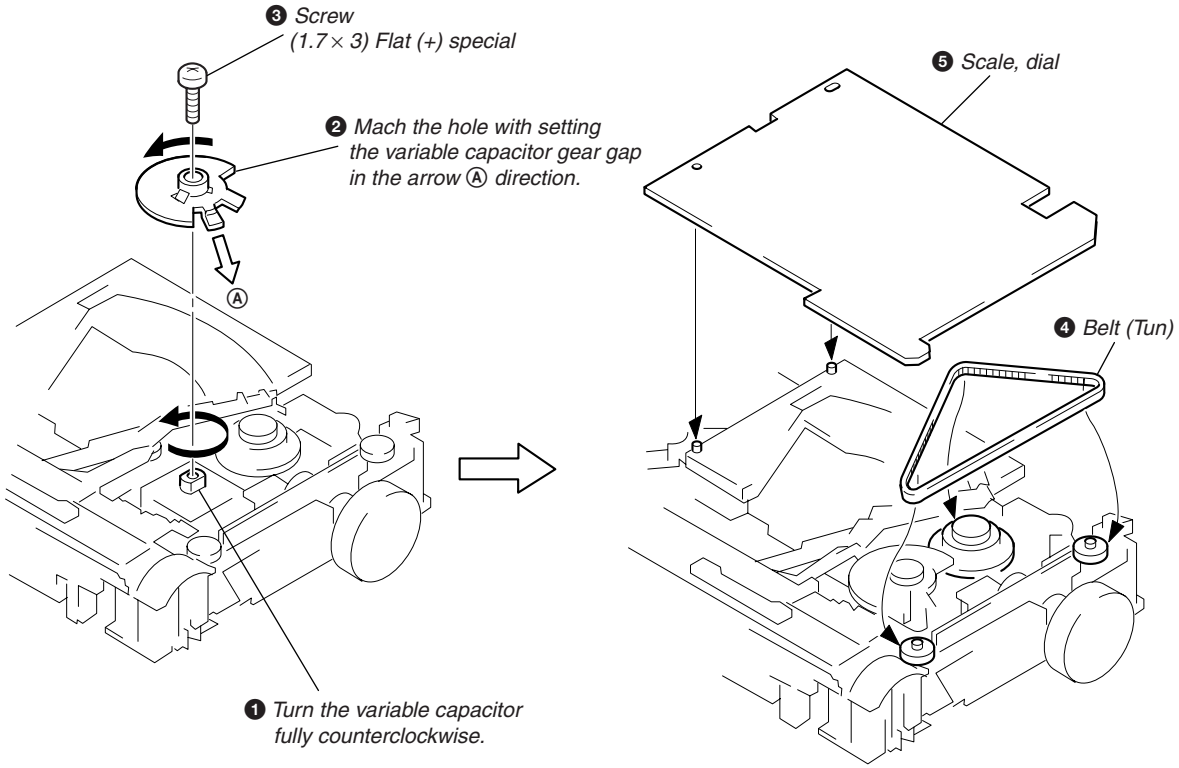
2-1. REAR CABINET

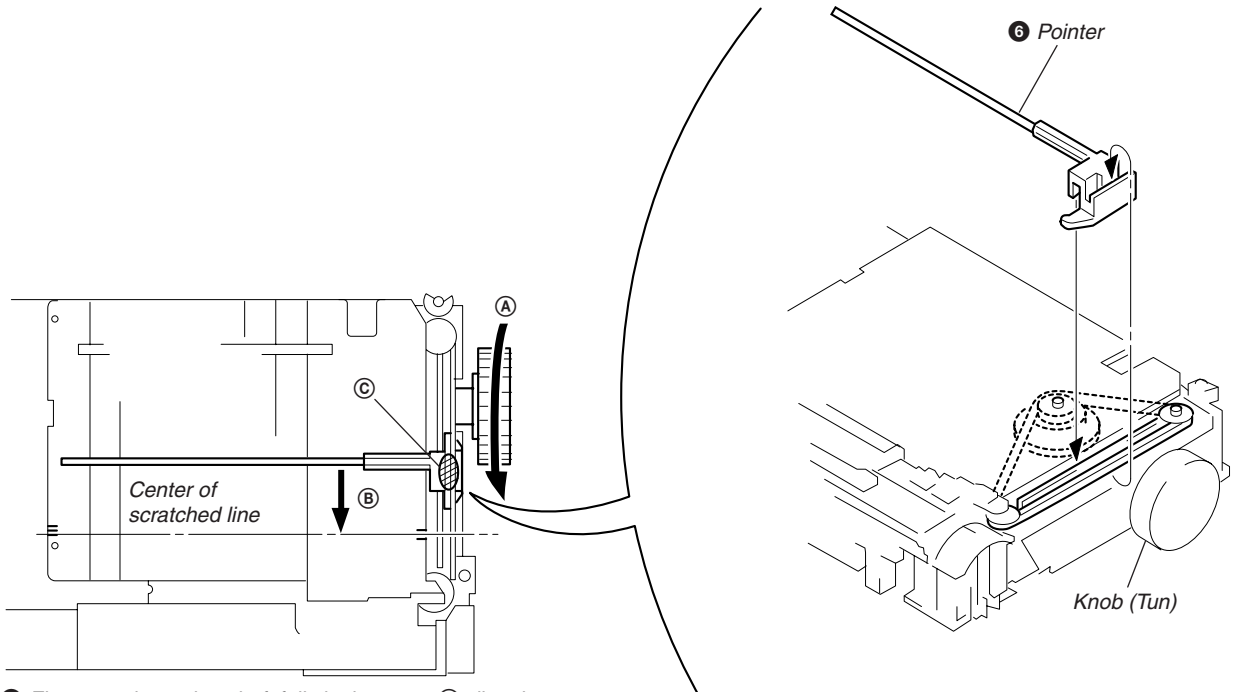


2-2. FRONT CABINET, MAIN BOARD



2-3. DIAL POINTER SETTING


❸ Screw
(1.7× 3) Flat (+) special
❷ Mach the hole with setting the variable capacitor gear gap in the arrow Ⓐ direction.
Ⓐ
❶ Turn the variable capacitor fully counterclockwise.
❺ Scale, dial
❹ Belt (Tun)



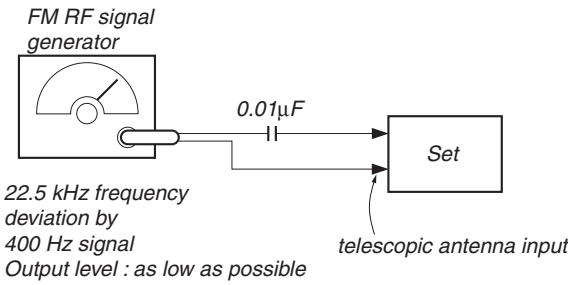
❼ *First, turn the tuning shaft fully in the arrow Ⓐ direction. Move only the dial pointer in the arrow Ⓑ direction and set it on the center of the scratched lines on the dial scale plate. Apply suitable locking compound to Ⓒ portion.*

SECTION 3
ELECTRICAL ADJUSTMENTS

FM section

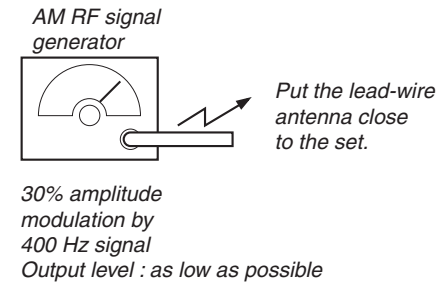
0 dB=1µV

Setting
BAND switch : FM


FM RF signal generator
0.01µF
Set
22.5 kHz frequency deviation by 400 Hz signal
Output level : as low as possible
telescopic antenna input

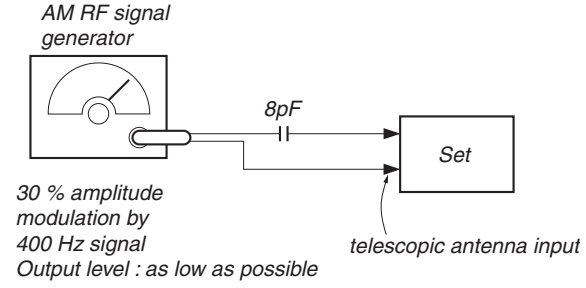
MW/LW section

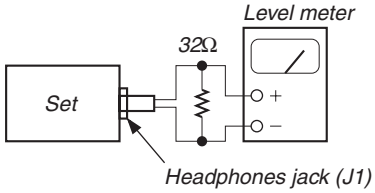
Setting
BAND switch : MW/LW


AM RF signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400 Hz signal
Output level : as low as possible

SW section

Setting
BAND switch : SW1 – SW9


AM RF signal generator
8pF
Set
30 % amplitude modulation by 400 Hz signal
Output level : as low as possible
telescopic antenna input



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

- This adjustment should be executed after MW band adjustment is completed because the LW and SW bands use the BAR ANT and CV1 in common with the MW band.
  Therefore, if MW band is adjusted, the LW and SW bands must also be readjusted.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L7	CT1-4
87.3MHz (75MHz)	108.3MHz (109.5MHz)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L6	CT1-3
87.3MHz (75MHz)	108.3MHz (109.5MHz)

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L4	CT1-2
520kHz	1,650kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L1	CT1-1
600kHz	1,400kHz

AM IF ADJUSTMENT
Adjust for a maximum reading on Level meter.
T1
455kHz

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L5	CT3
137kHz	295kHz

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on Level meter.	
L2	CT2
155kHz	260kHz

- Preparation for SW band adjustment
  After making sure that the MW band adjustment has completed, set the pointer to the center of character of 6.0, 7.2, 11.8 or 21.6MHz which is reference position of dial character, and fix the CV1 at this position.

( ) : Tourist model

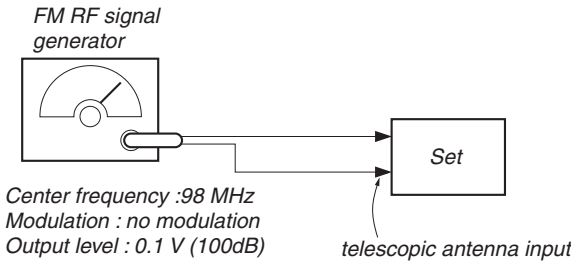
SW FREQUENCY CENTER ADJUSTMENT		
Adjust for a maximum reading on Level meter.		
SW1	L25	4.85MHz (3.88MHz)
SW2	L24	6MHz
SW3	L23	7.2MHz
SW4	L22	9.62MHz
SW5	L21	11.8MHz
SW6	L20	13.65MHz
SW7	L19	15.35MHz
SW8	L18	17.65MHz
SW9	L17	21.6MHz

1. After completion of SW1-9 adjustment, confirm that each center frequency +910kHz signal is received from AM reference signal generator.
2. If not received, readjust, then repeat 1.

( ) : Tourist model

[VCO Adjustment]

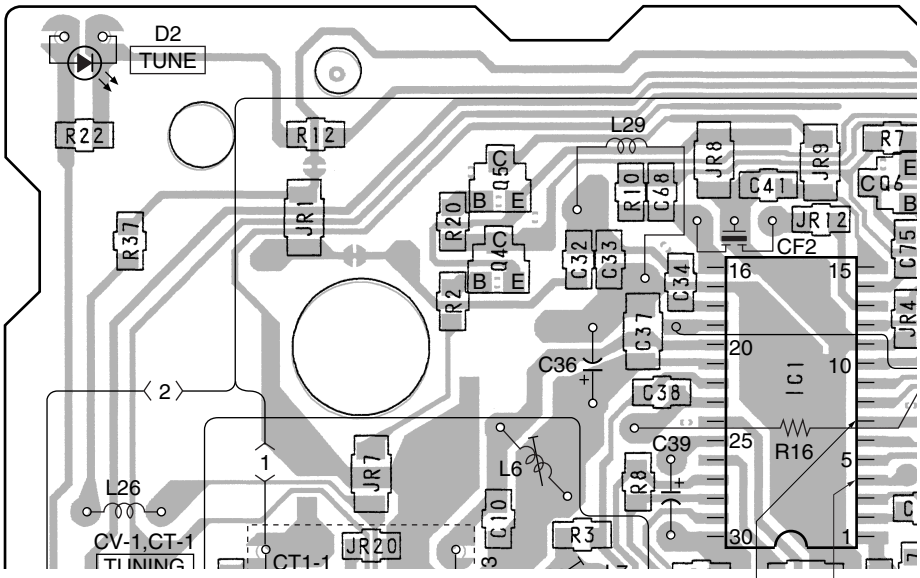
Procedure :



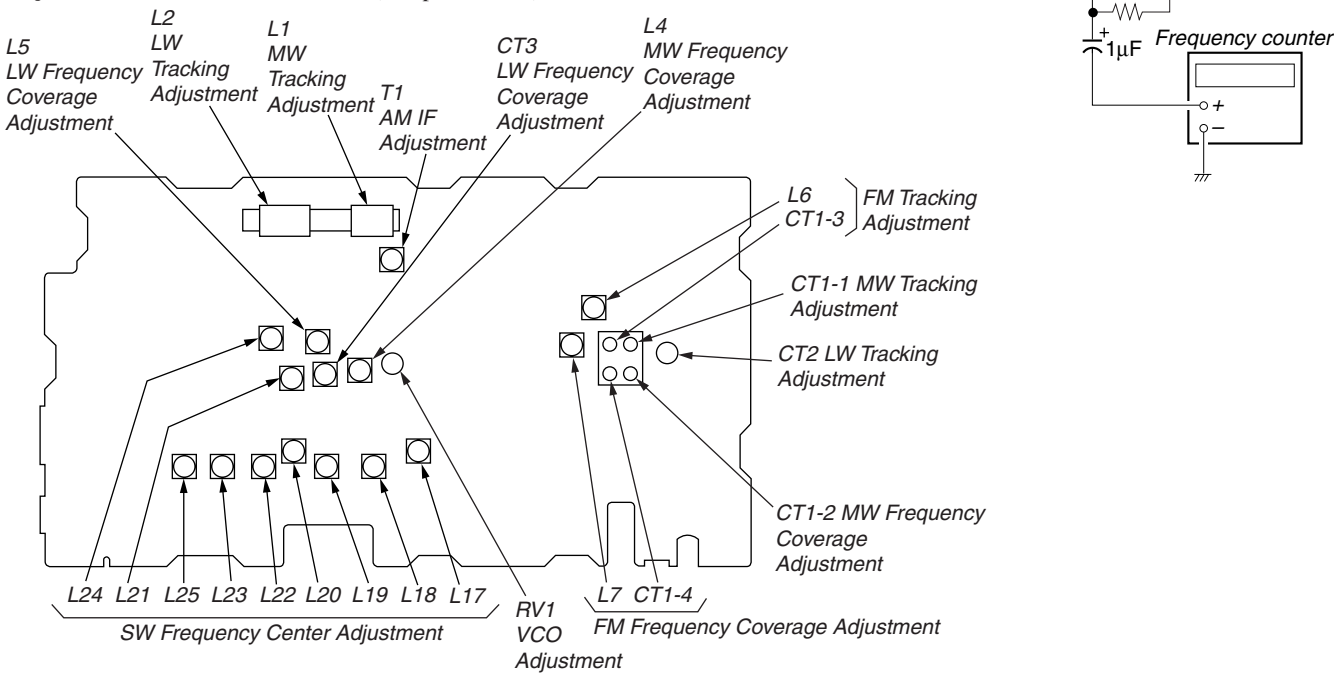
1. Insert the plug to Headphones jack (J1).
2. Connect frequency counter to the positions shown the figure right.
3. Tune the set to 98 MHz.
4. Adjust RV1 so that the frequency counter reading becomes 76,000Hz.
   Specification Value :

Frequency counter
75,950 – 76,050 Hz

MAIN BOARD (conductor side)



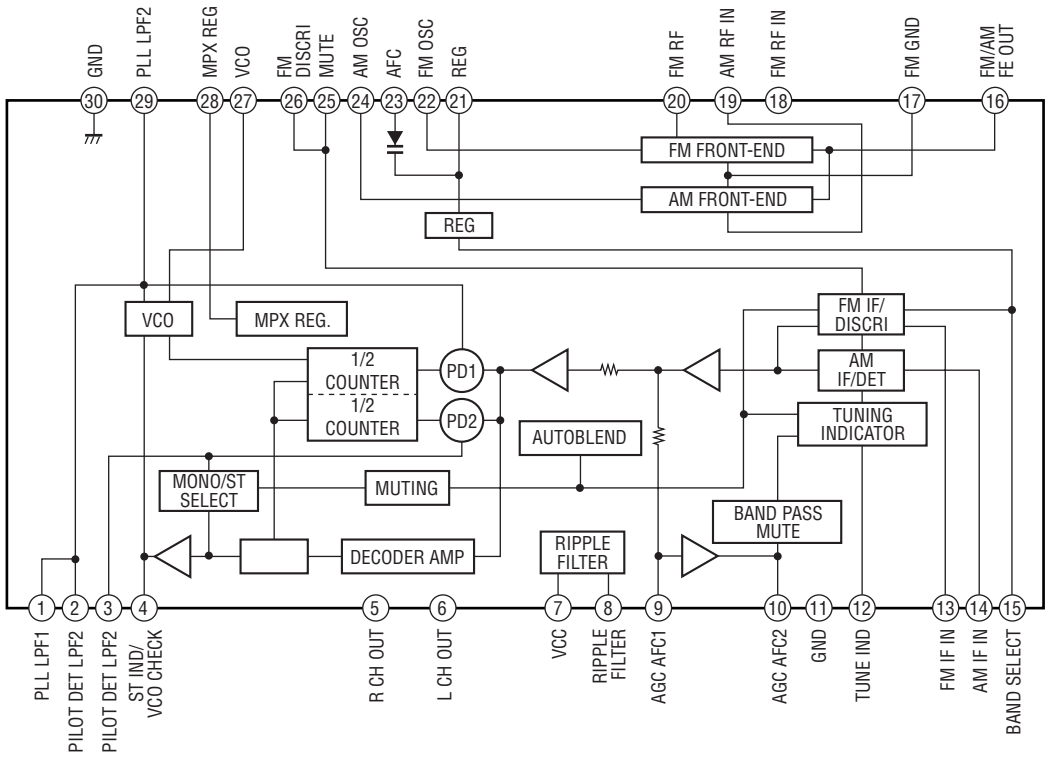
Adjustment Location : MAIN board (component side)


L5 LW Frequency Coverage Adjustment
L2 LW Tracking Adjustment
L1 MW Tracking Adjustment
T1 AM IF Adjustment
CT3 LW Frequency Coverage Adjustment
L4 MW Frequency Coverage Adjustment
L6 CT1-3 FM Tracking Adjustment
CT1-1 MW Tracking Adjustment
CT2 LW Tracking Adjustment
CT1-2 MW Frequency Coverage Adjustment
L24 L21 L25 L23 L22 L20 L19 L18 L17
SW Frequency Center Adjustment
RV1 VCO Adjustment
L7 CT1-4
FM Frequency Coverage Adjustment

SECTION 4
DIAGRAMS

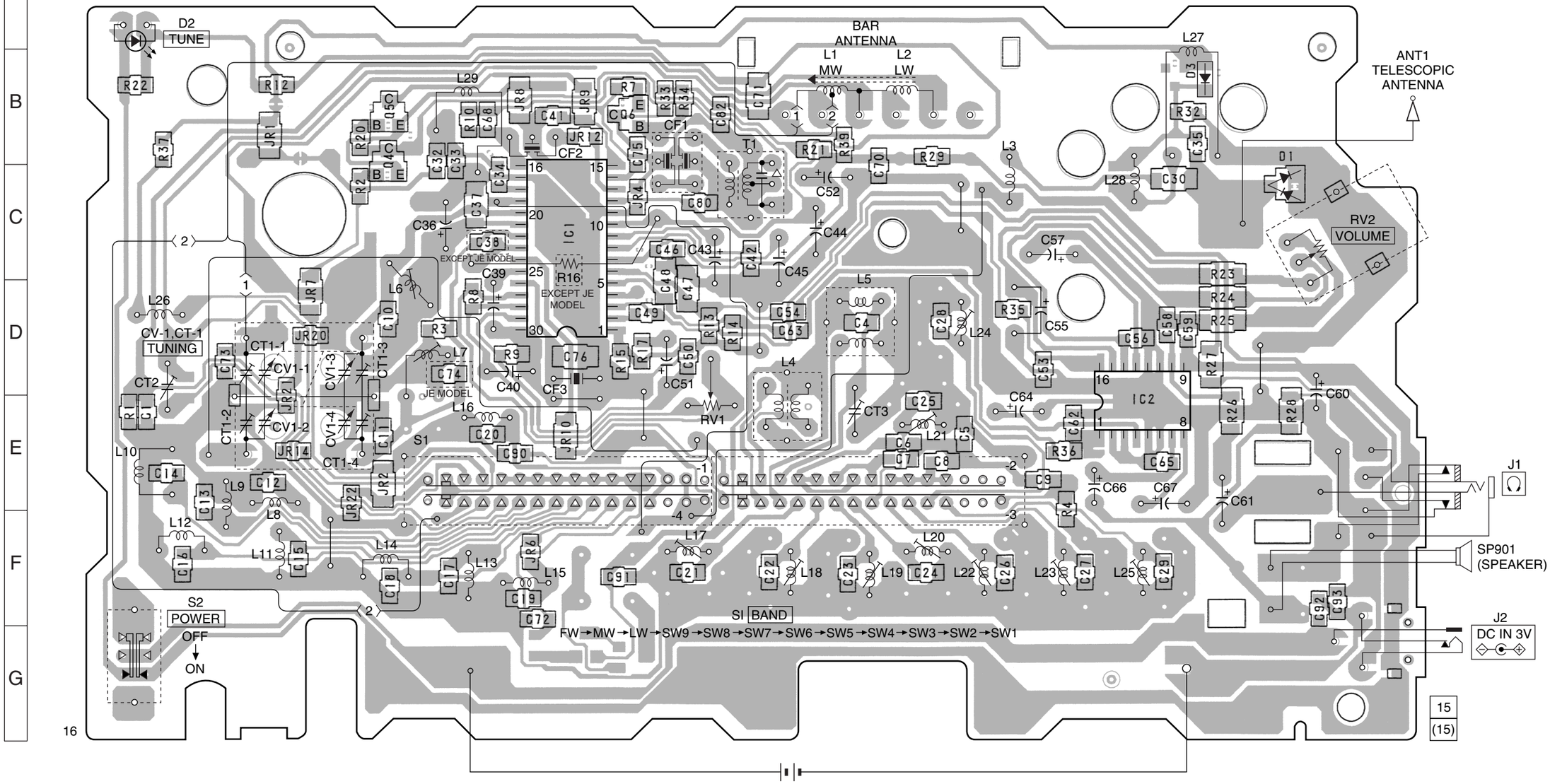
4-1. IC BLOCK DIAGRAM

IC1 CXA1238M-T6



4-2. PRINTED WIRING BOARD

【MAIN BOARD】



- **Semiconductor Location**

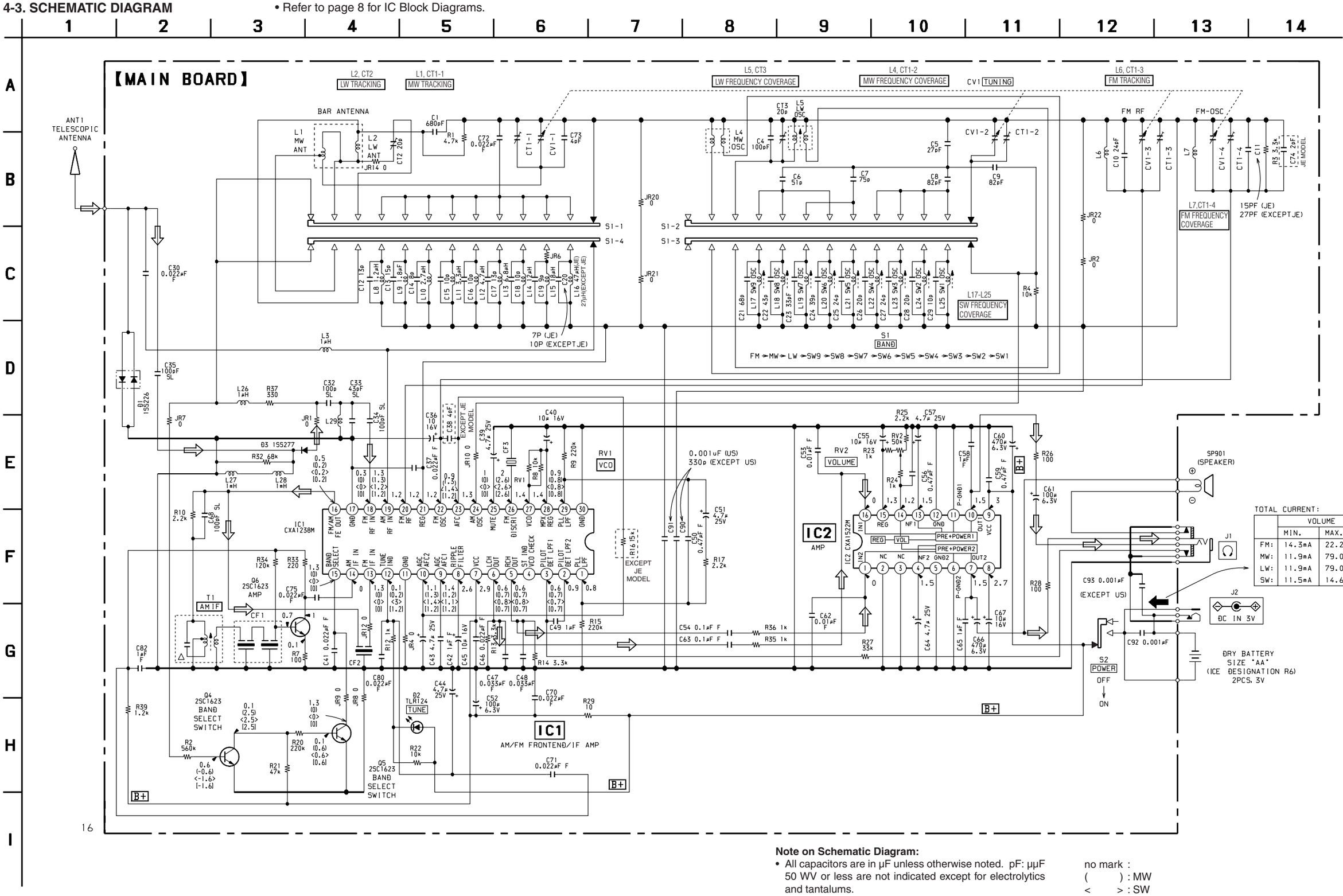
Ref. No.	Location
D1	C-11
D2	A-1
D3	B-11
IC1	C-5
IC2	D-10
Q4	B-4
Q5	B-4
Q6	B-6

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  JE : Tourist model

4-3. SCHEMATIC DIAGRAM

• Refer to page 8 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- ▭ : panel designation.
- ▭ : adjustment for repair.

no mark :
( ) : MW
< > : SW
[ ] : LW

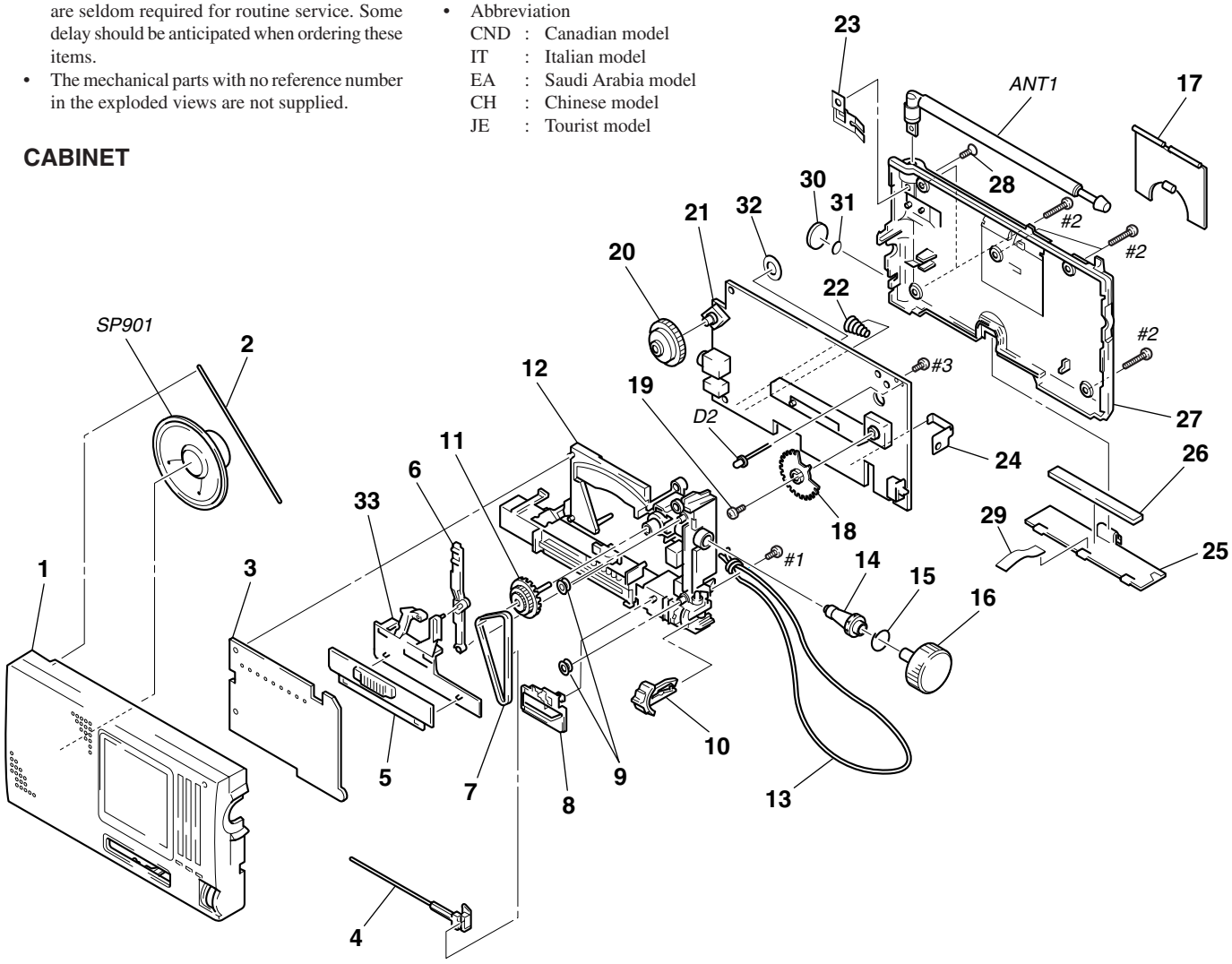
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviation
  JE : Tourist model

SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  IT : Italian model
  EA : Saudi Arabia model
  CH : Chinese model
  JE : Tourist model

CABINET



Ref. No.	Part No.	Description	Remarks
1	X-3377-979-1	CABINET (FRONT) ASSY (SILVER) (JE)	
1	X-3377-980-1	CABINET (FRONT) ASSY (GRAY) (CH)	
1	X-3377-981-1	CABINET (FRONT) ASSY (GRAY) (AEP,IT,E,EA)	
1	X-3377-982-1	CABINET (FRONT) ASSY (SILVER) (US,CND,AEP,IT,E,EA)	
1	X-3378-083-1	CABINET (FRONT) ASSY (SILVER) (CH)	
* 2	3-911-534-01	SPRING, PLUG	
3	3-039-997-01	SCALE, DIAL (US,CND,AEP,IT,E,CH,EA)	
3	3-039-997-11	SCALE, DIAL (JE)	
4	3-039-998-01	POINTER	
5	3-039-999-01	KNOB(BAND)	
6	3-910-552-01	INDICATOR (A)	
7	3-382-324-01	BELT(TUN)	
8	3-910-553-01	INDICATOR (B)	
9	3-900-157-01	PULLEY	
10	3-040-002-01	KNOB(POWER)	
11	3-380-910-01	GEAR, MIDWAY	
12	3-910-548-01	CHASSIS	
13	3-919-786-01	STRAP, HAND	
14	3-380-908-01	SHAFT (TUN)	
15	3-222-540-01	SPRING, RING	
16	3-380-909-01	KNOB(TUN)	
17	3-380-918-31	STAND	
18	3-380-914-01	GEAR(A), TUNING CAPACITOR	

Ref. No.	Part No.	Description	Remarks
19	3-880-990-00	SCREW (1.7 × 3),FLAT,(+) SPECIAL	
20	3-380-913-01	KNOB(VOL)	
* 21	A-3679-565-A	MAIN BOARD, COMPLETE(CND,AEP,IT,E,CH,EA)	
* 21	A-3679-765-A	MAIN BOARD, COMPLETE (JE)	
* 21	A-3683-132-A	MAIN BOARD, COMPLETE (US)	
22	3-043-282-01	TERMINAL (–), BATTERY	
23	3-893-840-01	PLATE (ANTENNA), CONTACT	
24	3-382-006-01	TERMINAL, BATTERY	
25	3-380-922-11	LID,BATTERY CASE	
26	3-312-059-11	CUSHION, BATTERY	
27	3-910-547-41	CABINET (REAR) (US,CND,AEP,IT,E,JE,EA)	
27	3-910-547-31	CABINET (REAR) (CH)	
28	3-918-696-01	SCREW (M3 × 6 LOCK ACE)	
29	3-040-003-01	RIBBON (BATTERY CASE LID)	
30	3-040-964-01	COVER(DC) (CH)	
31	3-040-965-01	SHEET(COVER DC), ADHESIVE (CH)	
32	3-563-515-01	WASHER(A), FIBER	
33	3-040-000-01	BASE(BAND)	
D2	8-719-812-41	DIODE GL3PR8 (TUNE)	
ANT1	1-501-222-81	ANTENNA, TELESCOPIC (FM)	
SP901	1-544-517-11	SPEAKER	
#1	7-685-105-19	TPG +P 2 × 8, TYPE 2, NON-SLIT	
#2	7-685-138-19	SCREW +P 2.6 × 16 TYPE2 NON-SLIT	
#3	7-685-134-19	SCREW +BTP 2.6 × 8 TYPE2 N-S	

MAIN

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... , uPB... , µPB... , uPC... , µPC... , uPD..., µPD...
- Abbreviation
  CND : Canadian model
  IT : Italian model
  EA : Saudi Arabia model
  CH : Chinese model
  JE : Tourist model

Ref. No.	Part No.	Description			Remarks
*	A-3679-565-A	MAIN BOARD, COMPLETE			(CND,AEP,IT,E,CH,EA)
		**********			
*	A-3679-765-A	MAIN BOARD, COMPLETE (JE)			
		**********			
*	A-3683-132-A	MAIN BOARD, COMPLETE (US)			
		**********			
	3-831-441-99	CUSHION, STOPPER			
		< CAPACITOR >			
C1	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C4	1-163-377-11	CERAMIC CHIP	100PF	5%	50V
C5	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C6	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C7	1-163-248-11	CERAMIC CHIP	75PF	5%	50V
C8	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C9	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C10	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C11	1-163-097-00	CERAMIC CHIP	15PF	5%	50V (JE)
C11	1-163-103-00	CERAMIC CHIP	27PF	5%	50V (US,CND,AEP,IT,E,CH,EA)
C12	1-163-096-00	CERAMIC CHIP	13PF	5%	50V
C13	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C14	1-163-091-00	CERAMIC CHIP	8PF		50V
C15	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C16	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C17	1-163-096-00	CERAMIC CHIP	13PF	5%	50V
C18	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C19	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C20	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V (JE)
C20	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V (US,CND,AEP,IT,E,CH,EA)
C21	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C22	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C23	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C24	1-163-367-11	CERAMIC CHIP	39PF	5%	50V
C25	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C26	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C27	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C28	1-163-100-00	CERAMIC CHIP	20PF	5%	50V
C29	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C30	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C32	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C33	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C34	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C35	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C36	1-104-396-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remarks
C37	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C38	1-163-087-00	CERAMIC CHIP	4PF		50V (US,CND,AEP,IT,E,CH,EA)
C39	1-126-794-11	ELECT	4.7uF	20%	25V
C40	1-104-396-11	ELECT	10uF	20%	16V
C41	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C42	1-164-346-11	CERAMIC CHIP	1uF		16V
C43	1-126-794-11	ELECT	4.7uF	20%	25V
C44	1-126-794-11	ELECT	4.7uF	20%	25V
C45	1-104-396-11	ELECT	10uF	20%	16V
C46	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C47	1-163-074-00	CERAMIC CHIP	0.033uF		50V
C48	1-163-074-00	CERAMIC CHIP	0.033uF		50V
C49	1-164-346-11	CERAMIC CHIP	1uF		16V
C50	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C51	1-126-794-11	ELECT	4.7uF	20%	25V
C52	1-126-382-11	ELECT	100uF	20%	6.3V
C53	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C54	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C57	1-126-794-11	ELECT	4.7uF	20%	25V
C58	1-164-346-11	CERAMIC CHIP	1uF		16V
C59	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C60	1-126-935-11	ELECT	470uF	20%	6.3V
C61	1-126-382-11	ELECT	100uF	20%	6.3V
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C63	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C64	1-126-794-11	ELECT	4.7uF	20%	25V
C65	1-164-346-11	CERAMIC CHIP	1uF		16V
C66	1-126-935-11	ELECT	470uF	20%	6.3V
C67	1-104-396-11	ELECT	10uF	20%	16V
C68	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C70	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C71	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C72	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C73	1-163-087-00	CERAMIC CHIP	4PF		50V
C74	1-163-085-00	CERAMIC CHIP	2PF		50V (JE)
C75	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C80	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C82	1-164-346-11	CERAMIC CHIP	1uF		16V
C90	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V(US)
C90	1-163-129-00	CERAMIC CHIP	330PF	5%	50V (CND,AEP,IT,E,JE,CH,EA)
C91	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V(US)
C91	1-163-129-00	CERAMIC CHIP	330PF	5%	50V (CND,AEP,IT,E,JE,CH,EA)
C92	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C93	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remarks
		< FILTER >	
CF1	1-577-317-11	FILTER, CERAMIC	
CF2	1-760-238-71	FILTER, CERAMIC	
CF3	1-760-238-71	FILTER, CERAMIC	
		< TRIMMER >	
CT2	1-141-411-11	CAP, ADJ 20PF	
CT3	1-141-411-11	CAP, ADJ 20PF	
CT1	1-141-550-11	CAP, VAR (INCLUDING CV1) (JE)	
CT1	1-151-636-11	CAP, VAR (INCLUDING CV1)	(US,CND,AEP,IT,E,CH,EA)
		< VARIABLE CAPACITOR >	
CV1	1-141-550-11	CAP, VAR (JE)	
CV1	1-151-636-11	CAP, VAR (US,CND,AEP,IT,E,CH,EA)	
		< DIODE >	
D1	8-719-800-76	DIODE 1SS226	
D2	8-719-812-41	DIODE GL3PR8 (TUNE)	
D3	8-719-921-22	DIODE 1SS277	
		< IC >	
IC1	8-752-062-48	IC CXA1238M-T6	
IC2	8-752-064-80	IC CXA1522M	
		< JACK >	
J1	1-566-891-11	JACK (HEADPHONE)	
J2	1-764-799-11	JACK, EXTERNAL POWER (DC IN 3V)	
		< JUMPER RESISTOR >	
JR1	1-216-296-91	SHORT 0	
JR2	1-216-296-91	SHORT 0	
JR4	1-216-295-91	SHORT 0	
JR6	1-216-295-91	SHORT 0	
JR7	1-216-296-91	SHORT 0	
JR8	1-216-296-91	SHORT 0	
JR9	1-216-296-91	SHORT 0	
JR10	1-216-296-91	SHORT 0	
JR12	1-216-295-91	SHORT 0	
JR14	1-216-295-91	SHORT 0	
JR20	1-216-295-91	SHORT 0	
JR21	1-216-295-91	SHORT 0	
JR22	1-216-295-91	SHORT 0	
		< COIL >	
L1	1-501-683-11	ANTENNA, FERRITE-ROD (LW/MW)	
L2	1-501-683-11	ANTENNA, FERRITE-ROD (LW/MW)	
L3	1-414-142-61	INDUCTOR 1uH	
L4	1-406-028-00	COIL, OSC (MW)	
L5	1-416-749-11	COIL (LW OSC)	
L6	1-428-768-11	COIL, AIR-CORE (US,CND,AEP,IT,E,CH,EA)	
L6	1-428-840-11	COIL, AIR-CORE (JE)	
L7	1-406-042-00	COIL, FM OSC (US,CND,AEP,IT,E,CH,EA)	
* L7	1-422-202-11	COIL (AIR-CORE) (JE)	
L8	1-408-592-11	INDUCTOR 1.2uH	
L9	1-408-594-21	INDUCTOR 1.8uH	
L10	1-408-596-31	INDUCTOR 2.7uH	
L11	1-408-597-31	INDUCTOR 3.3uH	
L12	1-408-599-31	INDUCTOR 4.7uH	
L13	1-408-601-31	INDUCTOR 6.8uH	

Ref. No.	Part No.	Description	Remarks
L14	1-408-410-00	INDUCTOR 12uH	
L15	1-408-412-00	INDUCTOR 18uH	
L16	1-408-608-31	INDUCTOR 27uH (US,CND,AEP,IT,E,CH,EA)	
L16	1-408-611-31	INDUCTOR 47uH (JE)	
L17	1-409-895-11	COIL (OSC)	
L18	1-409-515-11	COIL (OSC)	
L19	1-409-514-11	COIL (OSC)	
L20	1-409-513-11	COIL (OSC)	
L21	1-409-512-11	COIL (OSC)	
L22	1-409-511-11	COIL (OSC)	
L23	1-409-510-11	COIL (OSC)	
L24	1-409-509-11	COIL (OSC)	
L25	1-409-508-11	COIL (OSC) (US,CND,AEP,IT,E,CH,EA)	
L25	1-411-856-11	COIL (OSC) (JE)	
L26	1-414-142-61	INDUCTOR 1uH	
L27	1-414-167-11	INDUCTOR 1mH	
L28	1-414-167-11	INDUCTOR 1mH	
L29	1-428-769-11	COIL, AIR-CORE	
		< TRANSISTOR >	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R1	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R2	1-216-115-00	METAL CHIP 560K 5% 1/10W	
R3	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R4	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R7	1-216-025-91	RES,CHIP 100 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R9	1-216-105-91	RES,CHIP 220K 5% 1/10W	
R10	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R12	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R13	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R14	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R15	1-216-105-91	RES,CHIP 220K 5% 1/10W	
R16	1-247-883-00	CARBON 150K 5% 1/4W	(US,CND,AEP,IT,E,CH,EA)
R17	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R20	1-216-105-91	RES,CHIP 220K 5% 1/10W	
R21	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R22	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R23	1-216-198-91	RES,CHIP 1K 5% 1/8W	
R24	1-216-198-91	RES,CHIP 1K 5% 1/8W	
R25	1-216-206-00	RES,CHIP 2.2K 5% 1/8W	
R26	1-216-174-00	RES,CHIP 100 5% 1/8W	
R27	1-216-234-00	RES,CHIP 33K 5% 1/8W	
R28	1-216-174-00	RES,CHIP 100 5% 1/8W	
R29	1-216-001-00	METAL CHIP 10 5% 1/10W	
R32	1-216-093-91	RES,CHIP 68K 5% 1/10W	
R33	1-216-033-00	METAL CHIP 220 5% 1/10W	
R34	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R35	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R36	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R37	1-216-037-00	METAL CHIP 330 5% 1/10W	
R39	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	

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MAIN

Ref. No.	Part No.	Description	Remarks
		< VARIABLE RESISTOR >	
RV1	1-228-995-00	RES, ADJ, METAL22K	
RV2	1-238-555-11	RES, VAR, CARBON 50K	
		< SWITCH >	
S1	1-692-846-11	SWITCH, SLIDE (BAND)	
S2	1-571-850-81	SWITCH, SLIDE (POWER)	
		< TRANSFORMER >	
T1	1-416-021-11	COIL (AM IFT)	
**********			
		MISCELLANEOUS	
		**********	
ANT1	1-501-222-81	ANTENNA, TELESCOPIC (FM)	
SP901	1-544-517-11	SPEAKER	
**********			
		ACCESSORIES	
		**********	
	3-048-851-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH, SWEDISH,ITALIAN,PORTUGUESE)	(US,CND,AEP,IT)
	3-048-851-21	MANUAL, INSTRUCTION (DANISH,FINNISH,POLISH,HUNGARIAN, RUSSIAN)	(AEP)
	3-867-546-01	MANUAL, INSTRUCTION (JAPANESE,ENGLISH,KOREAN,CHINESE)	(JE,CH)
	3-867-546-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH, SWEDISH,ITALIAN,PORTUGUESE)	(US,CND,AEP,IT)
	3-867-546-21	MANUAL, INSTRUCTION (DANISH,FINNISH,POLISH,HUNGARIAN, RUSSIAN)	(AEP)
	3-867-546-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH, PORTUGUESE,KOREAN,ARABIC)	(E,EA)
	3-912-863-06	GUIDE, SHORT WAVE	

MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.1	2001.10	Correction of exploded views Addition of CE7 model (ENG-01020)
1.0	1999.09	New